

LEVALIGN® expert

Flatness and level with a spin



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Leveling and flatness with spinning laser

Standard features

- One person operation
- Automatic vertical and horizontal laser leveling
- Leveling, flatness, straightness, parallelism and perpendicularity
- Laser range dia. 200 m, sensor measurement range 70 mm
- Integrated wireless communication
- Evaluation of flatness and level of surface profiles in 3-D on ROTALIGN® Ultra
- High-end PC software for data analysis, professional reporting and data management

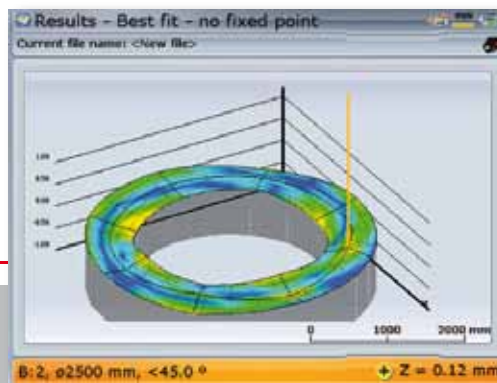
Geometric measurements made simple. The horizontal and vertical self-leveling spinning laser with 100 m measurement range in conjunction with a 70mm range sensor ensures quick one-man operation for wide-ranging measurement tasks. Wireless communication between sensor and ROTALIGN® Ultra computer transfers measurement data for analysis and evaluation of surface profile. LEVALIGN® expert is a very attractive package for OEMs and companies who offer full maintenance services for improvement of machine running condition and productivity.



The measuring system consists of LEVALIGN® expert laser and sensor wireless communicating with the ROTALIGN® Ultra computer, and optional powerful ALIGNMENT CENTER PC software for measurement analysis.

For advanced industrial applications

- ▶ Flatness and parallelism of wind tower segment flanges
- ▶ Leveling of machine foundations
- ▶ Parallelism of rails
- ▶ Flatness and straightness measurement in ship building
- ▶ Leveling of reference surfaces and bases
- ▶ Circular and rectangular surface profiles



3-D view of the ROTALIGN® Ultra computer allowing better comprehension and evaluation of the results

LEVALIGN® expert laser – technical data

Laser wavelength	635 nm
Laser class	II ($\lt; 1\text{mW}$)
Laser range	100 m ($\text{Ø } 200\text{ m}$)
Self leveling	Vertical or horizontal (detachable)
Self leveling range	$\pm 5\%$
Direction adjustment	$\pm 5\%$
Speed	Up to 800 RPM
Overall error (incl. conical + leveling + step)	$\lt; \pm 25\mu\text{m} + \pm 24\mu\text{m/m}$
Power	Internal rechargeable battery or external power supply
Operating time	Up to 16 hours
Dimensions	$\text{Ø } 130\text{ mm} \times 270\text{ mm}$
Weight	3.4 kg

LEVALIGN® expert sensor – technical data

Resolution	0.01 mm
Accuracy	$\pm 0.02\text{ mm}$
Measurement range	70 mm
Zero point adjustment	70 mm
Internal memory	2600 points
Wireless communication	Bluetooth®
Power	2 x AA batteries
Dimensions	$214 \times 70 \times 40\text{ mm}$
Weight	0.62 Kg



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